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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,142 11/2		11/25/2003	Masaichi Miyano	117843	4313
25944	7590	09/28/2005		EXAMINER	
OLIFF & E	BERRIDG	E, PLC		EVANS, JEI	FERSON A
P.O. BOX 1	9928				
ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER
·			2652		

DATE MAILED: 09/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/720,142	MIYANO ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jefferson A. Evans	2652				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on	_•					
2a) <u></u> □	This action is FINAL . 2b) ☐ This	<u> </u>					
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🛛	I)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
•	Claim(s) is/are rejected.						
•	Claim(s) <u>1-11</u> is/are objected to.						
8)[_	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)⊠ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>25 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
44)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					



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Claims 1 to 11 are pending.

- 1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 2. This application is in condition for allowance except for the following formal matters:
- A....the title of the invention is not adequately descriptive. A new title is required that is more clearly indicative of the invention to which the claims are directed by making reference to the silicon arms doped with an impurity.
- B...the abstract of the disclosure is objected to because the second sentence is awkward and should be rewritten as (for example) -- In the actuator in accordance with the present invention, a pair of silicon arms have their resistances lowered by being doped with impuities and are connected to each other by way of a glass substrate -- .
- C...claims 1 to 11 are objected to because of the following informalities: claim 1 line 4 is awkward and should be rewritten as (for example) -- respective end parts connected to opposite end faces of the --. Lines 6 to 8 are awkward and should be rewritten as (for example) -- each silicon arm provided at a surface, opposite from the surface connected to the insulating substrate, with a piezoelectric part --. Lines 9 to 11 should be similarly rewritten as -- each piezoelectric part provided with a first electrode at a surface opposite a surface facing the respective silicon arm --. Claim 2 should be rewritten as -- each silicon arm should be provided with a second electrode on the same surface that the respective piezoelectric part is formed on. Claim 8 line 8, "to both" should be changed to -- to opposite --.

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Prosecution on the merits is closed in accordance with the practice under *Ex parte*Ouayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAE

September 25, 2005

Jefferson A. Evans Primary Examiner Art Unit 2652

> JEFFERSON EVANS PRIMARY EXAMINER